

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/039074 A1

(51) International Patent Classification⁷:

H04B 7/185

(74) Agent: SHINSUNG PATENT FIRM; 2F, Line Bldg., 823-30 Yeoksam-dong, Kangnam-ku, Seoul 135-080 (KR).

(21) International Application Number:

PCT/KR2004/000967

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 27 April 2004 (27.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0072769 18 October 2003 (18.10.2003) KR

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for all designated States except US): ELECTRONICS AND TELECOMMUNICATION RESEARCH INSTITUTE [KR/KR]; 161, Gajeong-dong, Yuseong-gu, Daejon 305-350 (KR).

(72) Inventors; and

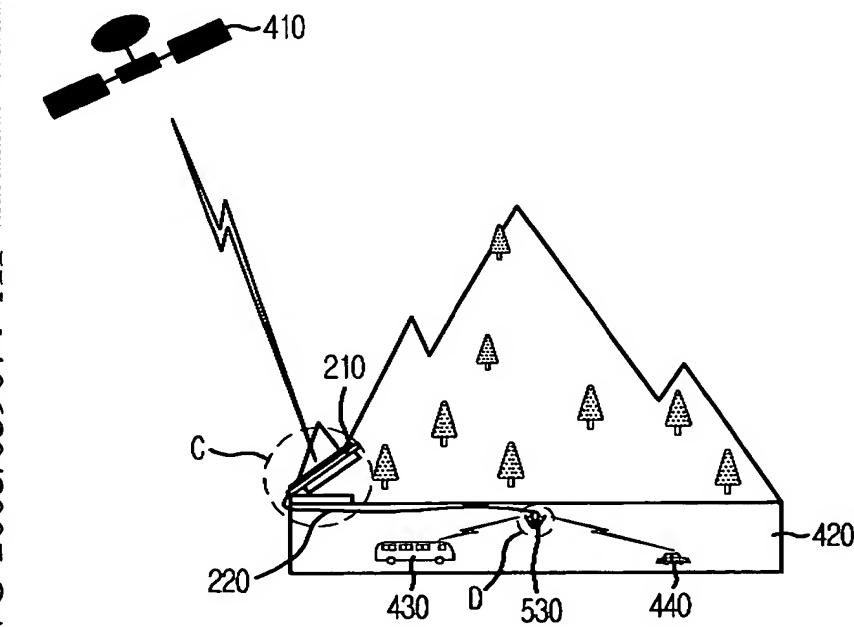
(75) Inventors/Applicants (for US only): LEE, Yong-Min [KR/KR]; #112-1101 Hanbit Apt., Eoeun-dong, Yuseong-gu, Daejon 305-755 (KR). EUN, Jong-Won [KR/KR]; #502-1702 Expo Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-762 (KR). LEE, Seong-Pal [KR/KR]; #109-602 Narae Apt., Jeonmin-dong, Yuseong-gu, Daejon 305-729 (KR).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: APPARATUS FOR REPEATING SIGNAL USING MICROSTRIP PATCH ARRAY ANTENNA



(57) Abstract: An apparatus for repeating a signal from a satellite using a microstrip patch array antenna is disclosed. The apparatus includes: a receiving unit for receiving the signal and amplifying the receiving signal; a radiating unit for radiating the amplified signal to the shadow area; and a feeding unit for feeding the amplified signal to the radiating unit.